HYUNDAI
POWER EQUIPMENT

air series

3/8" RATCHET

HPT-R38-1

ENGLISH USER MANUAL

HYUNDAI
POWER EQUIPMENT

LICENSED BY HYUNDAI CORPORATION, KOREA
LICENCIÉ PAR LA CORPORATION HYUNDAI, CORÉE

PRINTSPEC: EN-HPT-R38-1-2010v1
© 2010 MIDLAND INTERNATIONAL INC.

Thank you for purchasing a Hyundai Air Tool.

Please register your product in order for us to ensure your continuous satisfaction with our product.

This manual covers the safety, operation, and maintenance procedures for the HPT-R38-1.

It is important that this manual be read and fully understood before operating the compressor. Failure to do so may cause serious injuries and/or equipment damage.

TECHNICAL DATA

SQUARE DRIVE	3/8"
FREE SPEED	160 RPM
MAX TORQUE	50ft/lb (6.91 kg-m)
AVERAGE AIR CONSUMPTION	4 CFM
OPERATING PRESSURE	90 PSI (6.3 bar)
AIR INLET SIZE	¼"
AIR HOSE	3/8"
WEIGHT	2.67 Lbs (1.22 kg)

IMPORTANT SAFETY RULES

1. Only operate in a clean and safe working environment.
2. Do not wear watches, rings, bracelets, and/or loose clothing when using the ratchet.
3. WARNING! Disconnect the ratchet from air supply before changing accessories or servicing.
4. Replace any damaged or worn parts. Only use Hyundai authorized parts.
5. WARNING! Do not exceed the recommended air pressure of the wrench.
6. Make sure to keep the hose away from heat, oil, and sharp edges. Check the air hose for wear before each use and ensure that all connections are secure.
7. Wear approved eye/face, hand, and hearing protection to reduce the risk of injury.
8. Maintain correct balance and footing when operating the ratchet.
9. Keep children and non-essential persons away from the working area.
10. Do not use the ratchet for tasks that it is not designed to perform.
11. Do not use the ratchet if damaged in any way or thought to be faulty.

12. Do not carry the ratchet by the air hose.
13. Do not direct air from the air house at yourself or others.
14. When not in use, disconnect the ratchet from the air supply and store it in a safe and dry location.

OPERATING INSTRUCTION DESCRIPTION

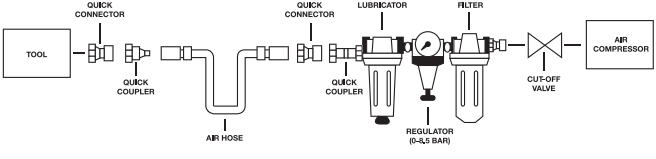
This 3/8" Ratchet is designed to install and remove sparkplugs and engine parts. The ratchet is made of a die-cast aluminum body, and features a comfortable rubber grip. It is ideal for changing sparkplugs, as well as general assembly, and other workshop applications.

Air Supply

1. Ensure the tool's air valve (or trigger) is in the OFF position before connecting the ratchet to the air supply.
2. The ratchet requires 90 PSI of air pressure to operate. Do not exceed the specified air pressure to prevent damage and/or personal harm.
3. Drain the tank daily after each use. Moisture in the air line will damage the ratchet.

Lubrication

An automatic in-line filter-regulator lubricator is recommended (Fig.), as it increases tool life and keeps the tool in good working order. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open for approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.



Loading and Operation

1. Connect the ratchet to the air hose.
2. Place the socket over the subject nut and depress the trigger to operate the wrench.
3. To change direction, turn the directional switch on the backside of the ratchet head. Direction of R for reverse and F for forward.
4. Ensure the air supply is clean and does not exceed 90 PSI. Too high an air pressure and unclean air will shorten the product life and may cause damage or personal injury.

DO NOT use any additional force upon the ratchet in order to remove a nut.
DO NOT allow the ratchet to run free for an extended period of time, as this will shorten its life.

Maintenance
WARRANTY NOTICE: This tool must be serviced by an authorized Hyundai Service Dealer during its warranty period. Failure to do so will void the warranty.
Disconnect ratchet from the air supply before changing accessories, servicing or performing maintenance.
Lubricate the air ratchet daily with a few drops of air tool oil dripped into the air inlet

1. Lubricate the air ratchet daily with a few drops of air tool oil dripped into the air inlet
2. Do not use worn or damaged sockets.
3. Loss of power or erratic action may be due to the following:
   - Excessive moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy this problem, check the air supply and follow instructions.
   - Grit or gum deposits in the ratchet may also reduce performance. If your model has an air strainer, located in the area of the air inlet, remove the strainer and clean it.

WARNING! If any of the following symptoms appears during your use of the ratchet, stop using the tool immediately, or serious personal injury could result.
Disconnect tool from air supply before attempting repair or adjustment.
WARRANTY NOTICE: This tool must be serviced by an authorized Hyundai Service Dealer during its warranty period. Failure to do so will void the warranty.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Tool runs at normal speed, but loses under load.	• Motor parts are worn. • Cam clutch worn or sticking due to lack of lubricant.	• Lubricate the clutch housing. • Check for excess clutch oil. Clutch cases need to be only half full. Overfilling can cause drag on high speed clutch parts. Typical oiled/ lubricated wrench requires ½ ounce of oil. GREASE LUBRICATED NOTE: Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.
Tool runs slowly. Limited air flows from exhaust.	• Motor parts jammed with dirt particles • Power regulator in closed position • Air flow blocked by dirt.	• Check air inlet filter for blockage. • Pour air tool lubricating oil into air inlet as per instructions. • Operate tool in short bursts, quickly reversing rotation back and forth, where applicable.

Tools will not run. Air flows freely from exhaust.	• One or more motor vanes stuck due to material build up.	• Pour air tool lubricating tool into air inlet. • Operate tool in short bursts, quickly reversing rotation back and forth, where applicable • Disconnect air supply. Free motor by rotating drive shank manually, where applicable
Tool will not shut off	• 'O' rings throttle valve dislodged from seat inlet valve.	• Replace 'O' ring.